

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A golf ball comprising a core and a cover, wherein at least one layer comprises a composition comprising:
a polyurea prepolymer; and
a curing agent, wherein at least one of the polyurea prepolymer and curing agent
comprise at least one trifunctional material, wherein the composition has a
crosslink density of about 0.2 or greater, and wherein the composition has an
average molecular weight between crosslinks of about 3000 or greater.
2. (Original) The golf ball of claim 1, wherein the at least one trifunctional material is selected from the group consisting of a trifunctional isocyanate, a trifunctional polyol, a trifunctional amine-terminated component, a trifunctional hydroxy-terminated curing agent, a trifunctional amine-terminated curing agent, a trifunctional isocyanurate, and combinations thereof.
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Currently Amended) The golf ball of claim ~~[[5]]~~ 1, wherein the polyurea prepolymer comprises the at least one trifunctional material.
7. (Currently Amended) The golf ball of claim ~~[[5]]~~ 1, wherein the curing agent comprises the at least one trifunctional material.
8. (Canceled)
9. (Currently Amended) A golf ball comprising a core, an inner cover layer, and an outer

cover layer, wherein the outer cover layer is formed of a composition comprising:

a polyurea prepolymer, wherein the polyurea prepolymer comprises an

isocyanate and an amine-terminated compound; and

a curing agent,

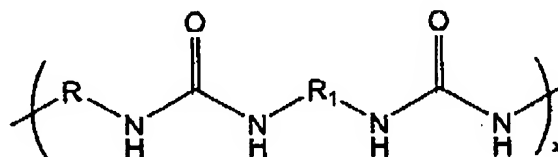
wherein at least one of the isocyanate, amine-terminated compound, or curing

agent has three functional groups, and wherein the composition has an

average molecular weight between crosslinks is about 1000 or greater ~~a~~

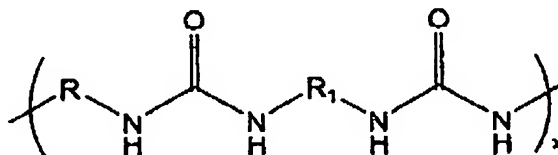
~~crosslink density of about 0.2 or greater.~~

[[9]] 10. (Currently Amended) The golf ball of claim 9, wherein the composition comprises linkages having the general formula:



wherein x is the chain length, wherein R₁ comprises a straight chain or branched hydrocarbon chain having about 1 to about 20 carbons, a polyether chain, a polyester chain, a polycaprolactone chain, or polycarbonate chain, and wherein R comprises aliphatic, aromatic, or araliphatic hydrocarbons.

[[10]] 11. (Currently Amended) The golf ball of claim 9, wherein the polyurea prepolymer comprises a backbone consisting essentially of ~~composition consists of~~ linkages having the general formula:



wherein x is the chain length, wherein R₁ comprises a straight chain or branched hydrocarbon

chain having about 1 to about 20 carbons, a polyether chain, a polyester chain, a polycaprolactone chain, or polycarbonate chain, and wherein R comprises aliphatic, aromatic, or araliphatic hydrocarbons.

[[11]] 12. (Original) The golf ball of claim 9, wherein the composition comprises at least one of a trifunctional isocyanate, a trifunctional polyol, a trifunctional amine-terminated component, a trifunctional hydroxy-terminated curing agent, a trifunctional amine-terminated curing agent, a trifunctional isocyanurate, or combinations thereof.

13. - 14. (Canceled)

[[14]] 15. (Currently Amended) A golf ball having at least one layer comprising a chemical composition for golf balls comprising:

a polyurethane prepolymer comprising an isocyanate and a polyol; and
a curing agent,

wherein at least one of the isocyanate, polyol, or curing agent comprises three functional groups, and wherein the composition has an average molecular weight between crosslinks of about 3000 or greater.

[[15]] 16. (Currently Amended) The ~~chemical composition~~ golf ball of claim [[0]] 15, wherein the average molecular weight between crosslinks is about 4000 or greater.

[[16]] 17. (Currently Amended) The ~~chemical composition~~ golf ball of claim [[0]] 15, wherein the composition comprises at least one trifunctional component selected from the group consisting of a trifunctional isocyanate, a trifunctional polyol, a trifunctional amine-terminated component, a trifunctional hydroxy-terminated curing agent, a trifunctional amine-terminated curing agent, a trifunctional isocyanurate, and combinations thereof.

[[17]] 18. (Currently Amended) The ~~chemical composition~~ golf ball of claim [[0]] 17, wherein the isocyanate is selected from the group consisting of an isocyanurate trimer of hexamethylene diisocyanate, an isocyanurate trimer of toluene diisocyanate, an isocyanurate trimer of isophorone diisocyanate, a blend of isophorone diisocyanate and an isocyanurate trimer of isophorone diisocyanate, and mixtures thereof.

[[18]] 19. (Currently Amended) The ~~chemical composition~~ golf ball of claim [[0]] 15, wherein the composition has at least one of a COR profile that exhibits an increase as temperature decreases from about 70°F to about 20°F, a tan δ profile that exhibits a decrease as temperature decreases from about 70°F to about 20°F, or both.

Please add the following new claims:

20. (New) The golf ball of claim 1, wherein the average molecular weight between crosslinks is about 4000 or greater.
21. (New) The golf ball of claim 1, wherein the at least one trifunctional material is selected from the group consisting of an isocyanurate trimer of hexamethylene diisocyanate, an isocyanurate trimer of toluene diisocyanate, an isocyanurate trimer of isophorone diisocyanate, a blend of isophorone diisocyanate and an isocyanurate trimer of isophorone diisocyanate, and mixtures thereof.
22. (New) The golf ball of claim 9, wherein the average molecular weight between crosslinks is about 4000 or greater.
23. (New) The golf ball of claim 9, wherein the trifunctional curing agent is selected from the group consisting of propylene-oxide based triamine, ethylene oxide triamine, diethylene triamine, trimethylolpropane-based triamine, glycerin-based triamine, N-(2-aminoethyl)-1,3-propylenediamine, and mixtures thereof.
24. (New) The golf ball of claim 15, wherein the isocyanate is selected from the group consisting of an isocyanurate trimer of hexamethylene diisocyanate, an isocyanurate trimer of toluene diisocyanate, an isocyanurate trimer of isophorone diisocyanate, a blend of isophorone diisocyanate and an isocyanurate trimer of isophorone diisocyanate, and mixtures thereof.
25. (New) The golf ball of claim 15, wherein the curing agent is selected from the group consisting of propylene-oxide based triamine, ethylene oxide triamine, diethylene triamine,

trimethylolpropane-based triamine, glycerin-based triamine, N-(2-aminoethyl)-1,3-propylenediamine, and mixtures thereof.